***** SEARCH RESULTS *****

```
=> d his l18

     (FILE 'HCAPLUS' ENTERED AT 10:15:25 ON 12 SEP 2008)
L18            9 S L17 OR L4

=> d que l18
L2           348 SEA FILE=HCAPLUS ABB=ON  PLU=ON  RUN FLAT#
L3          3110 SEA FILE=HCAPLUS ABB=ON  PLU=ON  SUPPORT (W) (BODY OR BODIES)
L4             7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2 AND L3
L6            10 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (INNER OR OUTER) (L) MOLD?
                 ROLLER#
L7        184793 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CIRCUMFEREN? OR TUBUL?
L8             3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND L7
L9             1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND L3
L11           41 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2 AND L7
L12            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND L11
L14            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND TUBUL? BLANK
L15            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND  MOLD? ROLLER#
L16            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND L3
L17            3 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L8 OR L9 OR L12 OR (L14 OR
                 L15 OR L16)
L18            9 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L17 OR L4


=> d his l33

     (FILE 'COMPENDEX, INSPEC, RAPRA, CONFSCI, MECHENG' ENTERED AT 10:29:57 ON
     12 SEP 2008)
L33            4 S L31 AND SUPPORT?

=> d que l33
L7        184793 SEA FILE=HCAPLUS ABB=ON  PLU=ON  CIRCUMFEREN? OR TUBUL?
L28          651 SEA RUNFLAT# OR RUN(W) FLAT# OR RUN FLAT#
L29          640 SEA L28 AND (TIRE# OR WHEEL# OR TUBUL? OR MOLD ROLLER#)
L30            9 SEA L29 AND L7
L31            9 SEA L30 AND CIRCUMFEREN?
L33            4 SEA L31 AND SUPPORT?


=> dup rem l18 l33
FILE 'HCAPLUS' ENTERED AT 10:43:04 ON 12 SEP 2008
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2008 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'RAPRA' ENTERED AT 10:43:04 ON 12 SEP 2008
COPYRIGHT (C) 2008 RAPRA Technology Ltd.
PROCESSING COMPLETED FOR L18
PROCESSING COMPLETED FOR L33
L38           13 DUP REM L18 L33 (0 DUPLICATES REMOVED)
                 ANSWERS '1-9' FROM FILE HCAPLUS
                 ANSWERS '10-13' FROM FILE RAPRA

=> d l38 1-9 ibib abs hitind; d l38 10-13 ibib ab ind

L38  ANSWER 1 OF 13  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2008:342894  HCAPLUS  Full-text
TITLE:                    Apparatus for manufacturing pills
INVENTOR(S):              Kwon, O. Ik
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PATENT ASSIGNEE(S): Kon, Oh Ik, S. Korea
SOURCE: Repub. Korean Kongkae Taeho Kongbo
CODEN: KRXXA7
DOCUMENT TYPE: Patent
LANGUAGE: Korean
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2008016903	A	20080222	KR 2008-3718	20080110
PRIORITY APPLN. INFO.:			KR 2008-3718	20080110

AB The title apparatus comprises: a box-shaped base body equipped with a driving source (such as a motor) inside, an extruding barrel set in the base body and combined with an extruding nozzle and an extruding screw to extrude a paste, a pair of first and second molding rollers comprising separated molding grooves on the outer circumferential surface, being capable of being moved to and fro and rotated simultaneously and used for cutting the extruded paste and spheroidizing the cut paste, and a driving means for to and fro moving and rotating the first and the second molding rollers. The molding grooves are respectively formed in the direction parallel to the rotation axis of each molding roller. The first and the second molding rollers vertically stand above the base body, and are vertically moved to and fro and rotated by means of the driving means. The extruding barrel is set at the side of the first and the second molding rollers to supply the paste between the first and the second molding rollers, and the paste falls along the molding grooves due to self-weight. The apparatus further comprises a moving means for moving the extruding nozzle between a first position and a second position. Residual paste can be smoothly removed from the molding rollers for molding the paste into spheres. Vibration and driving noise during the to-and-fro movement and rotation of the molding rollers are reduced, and driving is smooth.

L38 ANSWER 2 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:1081601 HCAPLUS Full-text
DOCUMENT NUMBER: 147:408066
TITLE: Run-flat tire wheel assembly body
INVENTOR(S): Hodaka, Takeshi
PATENT ASSIGNEE(S): Yokohama Rubber Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 16pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007245869	A	20070927	JP 2006-70735	20060315
PRIORITY APPLN. INFO.:			JP 2006-70735	20060315

AB Run-flat tire comprises a run-flat support body in between a tire and a wheel wherein the run-flat support comprises (A) a cyclic metal support and (B) a rubber part comprising diene rubber, sulfur and cyclic polysulfide.
CC 39-13 (Synthetic Elastomers and Natural Rubber)
ST run flat tire wheel diene rubber cyclic polysulfide sulfur
IT Natural rubber, uses
RL: PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(RSS 3; run-flat tire wheel assembly body)

IT Carbon black, uses
RL: MOA (Modifier or additive use); USES (Uses)
(Shoblack N 326M; run-flat tire wheel assembly body)
IT Wheels
(automotive; run-flat tire wheel assembly body)
IT Polysulfides
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(cyclic; run-flat tire wheel assembly body)
IT Wheels
(rims; run-flat tire wheel assembly body)
IT Tires
(run-flat tire wheel assembly body)
IT 793-24-8, Santoflex 6PPD
RL: MOA (Modifier or additive use); USES (Uses)
(antioxidant; run-flat tire wheel assembly body)
IT 444093-05-4P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); PREP (Preparation); USES (Uses)
(cyclic; run-flat tire wheel assembly body)
IT 95-31-8, Nocceler NS-F 1314-13-2, Zinc oxide, uses 4979-32-2, Nocceler DZ-G 14024-48-7, Bis(acetylacetonato)cobalt(II) 676625-72-2, Hitanol 2501Y
RL: MOA (Modifier or additive use); USES (Uses)
(run-flat tire wheel assembly body)

L38 ANSWER 3 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:934502 HCAPLUS Full-text
DOCUMENT NUMBER: 147:279119
TITLE: Run-flat tire and wheel assembled bodies with high durability
INVENTOR(S): Hodaka, Takeshi; Sugiyama, Tomoaki
PATENT ASSIGNEE(S): Yokohama Rubber Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 13pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007210565	A	20070823	JP 2006-35585	20060213
PRIORITY APPLN. INFO.:			JP 2006-35585	20060213

AB A title body consists of (a) a tire, (b) the tire-installed rim-equipped wheel, and (c) a support which is located in the hollow section formed between the tire and rim and comprises (c1) a circular metallic support component and (c2) a pair of rubber bodies on the support edges and prepared from compns. containing 100 parts diene rubbers, 0.1-5 parts aniline derivs. H(QNHCH2)nX (Q = C6H2R1R2; X = R1-substituted phenylene, R1 = H or NH2, R2 = H, NH2, C1-20 alkyl, C3-20 cycloalkyl, C6-20 aryl; n = 1-10 integer) or their blends, and 1-20% (based on 100 parts the anilines) methylene donors. A composition (A) containing RSS 3 100, carbon black 50, Nocceler H 0.8, PR-TR 01 5, and S 5 parts was used to form the steel support rubber bodies as described above and to form a tire/wheel assembled body showing traveling durability index 7% higher than a assembled body containing the support bodies from an A-similar composition without the PR-TR 01 and Nocceler H.
CC 39-13 (Synthetic Elastomers and Natural Rubber)
IT Natural rubber, uses

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(RSS 3; run-flat tire/wheel assembled bodies containing metal supports with edge rubbers containing CH2 donors and aniline oligomers for high durability)

IT Tires
Wheels
(run-flat tire/wheel assembled bodies containing metal supports with edge rubbers containing CH2 donors and aniline oligomers for high durability)

IT Metals, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(support component; run-flat tire/wheel assembled bodies containing metal supports with edge rubbers containing CH2 donors and aniline oligomers for high durability)

IT 14024-48-7, Cobalt (II) acetylacetonate
RL: CAT (Catalyst use); USES (Uses)
(run-flat tire/wheel assembled bodies containing metal supports with edge rubbers containing CH2 donors and aniline oligomers for high durability)

IT 100-97-0, Nocceler H, uses 928757-55-5, PR-TR 01
RL: MOA (Modifier or additive use); USES (Uses)
(run-flat tire/wheel assembled bodies containing metal supports with edge rubbers containing CH2 donors and aniline oligomers for high durability)

IT 12597-68-1, Stainless steel, uses 12597-69-2, Steel, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(support component; run-flat tire/wheel assembled bodies containing metal supports with edge rubbers containing CH2 donors and aniline oligomers for high durability)

L38 ANSWER 4 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:933042 HCAPLUS Full-text
TITLE: Vertical roller mill [machine translation]
INVENTOR(S): Yamamoto, Tsugio; Matsumoto, Shinji; Taniguchi, Masahiko
PATENT ASSIGNEE(S): Mitsubishi Heavy Industries, Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007209838	A	20070823	JP 2006-29197	20060207

PRIORITY APPLN. INFO.: JP 2006-29197 20060207

AB [Machine Translation of Descriptors]. Wear of the channeling plate with which the transfer air collides is suppressed to the minimum, maintaining the primary performance of classification, and the vertical mold roller mill which made long lasting possible is provided. The turntable 5 which rotates to the circumference of the vertical drive axis within the casing 2, the roller 7 with which it rotates, pressing at the turntable upper surface, and the solid material 50 is ground, the air feed ring 10 attached to the peripheral edge of the turntable, the channeling plate 18 with which it attached to the upper casing inner surface, and the upper part side inclined towards the casing center from the air feed ring, Equip the above and the air feed ring 10

consists of the inside circular ring wall 12 and the outside circular ring wall 13 which form the air passageway 15 of cyclic. In the vertical roller mill 1 by which two or more channeling vanes 16 which make channeling of the air between the inside circular ring wall and the outside circular ring wall have been arranged, it has constitution which formed the channeling ring 11 which makes the outside circular ring wall 13 turn and make channeling of the air to the circular ring center side.

L38 ANSWER 5 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:195981 HCAPLUS Full-text
DOCUMENT NUMBER: 144:234431
TITLE: Tire wheel assembly with high durability
INVENTOR(S): Hotaka, Takeshi; Mori, Makio
PATENT ASSIGNEE(S): The Yokohama Rubber Co., Ltd., Japan
SOURCE: PCT Int. Appl., 25 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2006022167	A1	20060302	WO 2005-JP14963	20050810
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
JP 2006062547	A	20060309	JP 2004-248304	20040827
EP 1787829	A1	20070523	EP 2005-772549	20050810
R: DE, FR				
CN 101010208	A	20070801	CN 2005-80029015	20050810
PRIORITY APPLN. INFO.:			JP 2004-248304 A	20040827
			WO 2005-JP14963 W	20050810

AB A title assembly contains a run-flat support body consisting of a circular metallic shell and a directly bindable rubber body which comprises the shell-bindable part (A) made from rubber (RA) and A-excluded parts (B) made from rubbers different from RA. Detailed illustrations are presented; an above assembly contained a B part prepared from 1.5 phr DZ- and 1.5 phr S-vulcanized RSS 3 composition and an A part prepared from a similar RSS 3 composition containing S 5, Hitanol 2501Y 5, and Co tris(acetylacetonate) 1 part without the DZ.

CC 39-13 (Synthetic Elastomers and Natural Rubber)

IT Natural rubber, uses
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(RSS 3; tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT Carboxylic acids, uses
RL: CAT (Catalyst use); USES (Uses)
(cobalt salts, in rubber composition for metal shell-bindable part; tire

wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT Coupling agents
(in rubber composition for metal shell-bindable part; tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT Silanes
RL: TEM (Technical or engineered material use); USES (Uses)
(in rubber composition for metal shell-bindable part; tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT Tires
Wheels
(tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT 21679-46-9, Cobalt tris(acetylacetonate)
RL: CAT (Catalyst use); USES (Uses)
(in rubber composition for metal shell-bindable part; tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT 676625-72-2, Hitanol 2501Y
RL: MOA (Modifier or additive use); POF (Polymer in formulation); USES (Uses)
(in rubber composition for metal shell-bindable part; tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

IT 7631-86-9, Nipsil AQ, uses 40372-72-3, Si 69
RL: TEM (Technical or engineered material use); USES (Uses)
(in rubber composition for metal shell-bindable part; tire wheel assembly containing run-flat support containing rubber body with different rubber-made parts for durability)

REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 6 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:1171976 HCAPLUS Full-text
TITLE: Run flat tire support body, method of manufacturing the same, and run flat tire on which run flat tire support body is fixedly mounted
INVENTOR(S): Shimizu, Toshiki; Mimura, Yoshio
PATENT ASSIGNEE(S): Toyo Tire & Rubber Co., Ltd., Japan
SOURCE: PCT Int. Appl.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005102742	A1	20051103	WO 2005-JP7821	20050425

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KM, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,

AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

JP 2005313510	A	20051110	JP 2004-135039		20040430
CA 2563036	A1	20051103	CA 2005-2563036		20050425
US 20070215266	A1	20070920	US 2006-587546		20061025
PRIORITY APPLN. INFO.:			JP 2004-131567	A	20040427
			JP 2004-132814	A	20040428
			JP 2004-133088	A	20040428
			JP 2004-135025	A	20040430
			JP 2004-135039	A	20040430
			WO 2005-JP7821	W	20050425

AB A run flat tire support body, a method of manufacturing the run flat tire support body, and a run flat tire on which the run flat tire support body is fixedly mounted. The run flat tire support body (14) enabling a reduction in weight and the suppression of the wear of the outer surface thereof by the sliding thereof on the inner surface of a tire when the tire runs in a run flat state comprises a base material part (13) having an inner diameter allowing the support body to be fitted to a rim (16) and formed of a resin foam body of 0.3 to 0.9 g/cm3 in density, a reinforcement part (15) installed on the inner peripheral part of the base material part (13), and a non-foam resin outer layer (11) covering at least the outer peripheral surface of the base material part (13).

IC ICM B60C017-06
ICS B29D030-06; B60B021-12; B60C017-10

L38 ANSWER 7 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:488746 HCAPLUS Full-text
TITLE: Support body for run-flat tire and method of manufacturing the same
INVENTOR(S): Iwasaki, Shinichi; Nakazawa, Kazuma; Ino, Fumitaka; Hatakeyama, Yoshikatsu; Hayashi, Shintaro
PATENT ASSIGNEE(S): Bridgestone Corporation, Japan
SOURCE: PCT Int. Appl.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005051639	A1	20050609	WO 2004-JP17485	20041125
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1693181	A1	20060823	EP 2004-819401	20041125
R: DE, FR, GB				
US 20070102087	A1	20070510	US 2006-581051	20060530
PRIORITY APPLN. INFO.:			JP 2003-399361 A	20031128
			WO 2004-JP17485 W	20041125

AB A support body for a run-flat tire and a method of manufacturing the support body for the run-flat tire. The annular support body for the run-flat tire comprises a support part and leg parts and capable of supporting a load in run- flat running. The method of manufacturing the support body for the run-flat tire comprises a step for supplying the support part and the leg parts, applying surface treatments including a chemical conversion treatment to adhesive areas between the support part and the leg parts at the radial inner end parts of the support part, and adhering the radial inner end parts to the leg parts. Thus, the method for manufacturing the support body for the run-flat tire maintaining high adhesiveness between the support part and the leg parts and having excellent durability and the support body for the run-flat tire can be provided.

IC ICM B29D030-06
ICS B60C017-06

REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 8 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:177985 HCAPLUS Full-text
TITLE: Tire/wheel assembly
INVENTOR(S): Naito, Mitsuru
PATENT ASSIGNEE(S): The Yokohama Rubber Co., Ltd., Japan
SOURCE: PCT Int. Appl.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005018961	A1	20050303	WO 2004-JP7950	20040608
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
JP 2005067301	A	20050317	JP 2003-297300	20030821
DE 112004001521	T5	20061019	DE 2004-112004001521	20040608
PRIORITY APPLN. INFO.:			JP 2003-297300 A	20030821
			WO 2004-JP7950 W	20040608

AB A tire/wheel assembly allowing a further increase in run- flat durability by simple structure, wherein a support body for run flat is inserted into the hollow part of a pneumatic tire coaxially with a rim. Lubricant holding grooves are formed in the inner peripheral surface of the pneumatic tire oppositely to at least the top part of the support body for run flat.

IC ICM B60C017-10
ICS B60C017-04

REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 9 OF 13 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2005:76491 HCAPLUS Full-text
TITLE: Method and device for manufacturing support

Body for run flat
INVENTOR(S): Sano, Takuzo; Takada, Noboru
PATENT ASSIGNEE(S): The Yokohama Rubber Co.,ltd., Japan
SOURCE: PCT Int. Appl.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005007391	A1	20050127	WO 2004-JP6641	20040518
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1650011	A1	20060426	EP 2004-733626	20040518
EP 1650011	B1	20080709		
R: DE, FR, IT				
CN 1826217	A	20060830	CN 2004-80020942	20040518
US 20060138703	A1	20060629	US 2005-561537	20051219
PRIORITY APPLN. INFO.:			JP 2003-277683 A	20030722
			WO 2004-JP6641 W	20040518

AB A method of manufacturing a support body for run flat, wherein when the peripheral wall of a tubular blank (B) is pressingly held between an inner molding roller (1) and an outer molding roller (2) and at least one circumferentially continuous projected part is formed on the peripheral wall of the tubular blank (B) while rotating both molding rollers (1) and (2) to form the tubular blank (B) in an annular shell, a molding roller formed by making equal the maximum outer diameter of the inner molding roller (1) substantially to the inner diameter of the tubular blank (B) is used.

IC ICM B29D030-06
ICS B60C017-06; B21H001-10
REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L38 ANSWER 10 OF 13 RAPRA COPYRIGHT 2008 RAPRA on STN
ACCESSION NUMBER: R:952363 RAPRA Full-text
FILE SEGMENT: Rapra Abstracts
TITLE: SAFETY REQUIREMENTS OF RONFLAT TIRES
.
AUTHOR: Yamazaki S; Peng Tien-Cheng; Liu K; Wu Chien Hsien (Japan,Automobile Research Institute; Nankan Tire Co.)
SOURCE: Tire Technology International Annual Review 2005, p.92-4
ISSN: 1426-4729
PUBLICATION YEAR: 2005
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The safety requirements for run-flat tyres are discussed and a new concept for a run-flat tyre with a support ring made from lightweight aluminium to keep the rim away from the road upon blowout is reported. Common problems associated with run-flat tyres, including breakaway from the rim during cornering, rim difference in the circumferential direction upon braking and loss of vehicle drivability and stability, are also discussed.
AN R:952363 RAPRA FS Rapra Abstracts Full-text
CC 6T1051
SC *QR
CT BLOW-OUT; BRAKING; COMPANIES; COMPANY; CORNERING; DATA; ELASTOMER; GRAPH; INSTITUTION; LIGHTWEIGHT; MECHANICAL PROPERTIES; PRODUCT ANNOUNCEMENT; PROPERTIES; RUBBER; RUN-FLAT TIRE; RUN-FLAT TYRE; SAFETY; TECHNICAL; TIRE; TIRE RIM; TYRE; TYRE RIM; WHEEL RIM
NPT ALUMINIUM; ALUMINUM; METAL
SHR TYRES, run flat, safety; SAFETY, run flat tyres
GT JAPAN; TAIWAN

L38 ANSWER 11 OF 13 RAPRA COPYRIGHT 2008 RAPRA on STN
ACCESSION NUMBER: R:767844 RAPRA Full-text
FILE SEGMENT: Rapra Abstracts
TITLE: ANTIREVERSION AGENT FOR INSERTS USED IN RUNFLAT TYRES.
INVENTOR: Beers R N; Benko D A; Wolski T P
PATENT ASSIGNEE: Goodyear Tire & Rubber Co.
PATENT INFORMATION: EP 988999 A2 20000329
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; AL; LT; LV; MK; RO; SI
APPLICATION INFORMATION: EP 1999-118887 19990924
PRIORITY APPLN. INFO: US 1998-160597 19980925
DOCUMENT TYPE: Patent
LANGUAGE: English
AB Runflat tyres are generally made by including a stiff insert in the sidewall thereof. This insert should be as stiff as possible to help support the weight of the vehicle to which the tyre is mounted in situations where there is a loss of air pressure. During periods of operation after loss of air pressure the stiff insert carries most of the load on the tyre which leads to the generation of heat. Heat build-up can then lead to thermal degradation in the insert. A reduction in crosslink density and a change in the distribution of crosslink types is the result of this thermal degradation. This invention is based upon the discovery that thermal degradation in the inserts of runflat tyres can be inhibited by including a bis-citraconimido compound therein as an antireversion agent. The insert is composed of a rubbery polymer and 1,3-bis(citraconimidomethyl) benzene. The runflat tyre is composed of a generally toroidal-shaped carcass with an outer circumferential tread, two spaced beads, at least one ply extending from bead to bead and sidewalls extending radially from and connecting the tread to the beads. The tread is adapted to be ground contacting and the sidewalls contain at least one insert radially inward from the ply.
AN R:767844 RAPRA FS Rapra Abstracts Full-text
IC ICM B60C017-00
ICS C08K005-3415; C08L021-00
CC 59; 6T104
CT ANTI-REVERSION AGENT; COMPANIES; COMPANY; CROSSLINK DENSITY; ELASTOMER; FLEXURAL PROPERTIES; HEAT BUILD-UP; HEAT DEGRADATION; INSERT; LOAD BEARING; LOADBEARING; RUBBER; RUN-FLAT TIRE; RUN-FLAT TYRE; SIDEWALL; STIFFNESS; TECHNICAL; THERMAL DEGRADATION; TIRE; TIRE BEAD; TIRE CARCASS; TIRE TREAD; TREAD; TYRE; TYRE BEAD; TYRE CARCASS; TYRE TREAD

NPT BISCITRACONIMIDOMETHYLBENZENE; CITRACONIMIDE
GT EUROPEAN COMMUNITY; EUROPEAN UNION; USA; WESTERN EUROPE-GENERAL

L38 ANSWER 12 OF 13 RAPRA COPYRIGHT 2008 RAPRA on STN
ACCESSION NUMBER: R:766241 RAPRA Full-text
FILE SEGMENT: Rapra Abstracts
TITLE: RUNFLAT TYRE.
INVENTOR: Halasa A F; Hsu W-L; Miner J A; Burlett D J; Pearson C J; Oare T R; Magnus F L; Feng Y
PATENT ASSIGNEE: Goodyear Tire & Rubber Co.
PATENT INFORMATION: EP 985554 A1 20000315
DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE; AL; LT; LV; MK; RO; SI
APPLICATION INFORMATION: EP 1999-117706 19990908
PRIORITY APPLN. INFO: US 1998-150086 19980909
DOCUMENT TYPE: Patent
LANGUAGE: English
AB This is generally made by including a stiff insert in the sidewall thereof. This insert should be as stiff as possible to help support the weight of the vehicle to which the tyre is mounted in situations where there is a loss of air pressure. However, the material used in making the insert should also exhibit low hysteresis and must be processable. The tyre is composed of a generally toroidal-shaped carcass with an outer circumferential tread, two spaced beads, at least one ply extending from bead to bead and sidewalls extending radially from and connecting the tread to the beads. The tread is adapted to be ground contacting and the sidewalls contain at least one insert radially inward from the ply. The insert is composed of (1) a cured polydiene rubber, which is coupled with a Group IVa metal, such as tin, lead, germanium or silicon, (2) from about 30 to 130 phr of a filler and (3) from 0.1 to 5 phr of a fatty acid. The insert generally extends radially inward from under the outer circumferential tread toward the bead to which the sidewall extends. The cured polydiene rubber is preferably coupled with tin.
AN R:766241 RAPRA FS Rapra Abstracts Full-text
IC ICM B60C001-00
ICS B60C017-08; C08L015-00
CC 6T1
CT COMPANIES; COMPANY; DIENE POLYMER; DIOLEFIN POLYMER; ELASTOMER; FILLER; FLEXURAL PROPERTIES; HYSTERESIS; INSERT; LOAD BEARING; MECHANICAL PROPERTIES; POLYDIENE; POLYDIOLEFIN; RUBBER; RUN-FLAT TIRE; RUN-FLAT TYRE; SIDEWALL; STIFFNESS; TECHNICAL; TIRE; TIRE BEAD; TIRE CORD; TIRE TREAD; TREAD; TYRE; TYRE BEAD; TYRE CORD; TYRE TREAD
NPT FATTY ACID; GERMANIUM; LEAD; SILICON; TIN
GT EUROPEAN COMMUNITY; EUROPEAN UNION; USA; WESTERN EUROPE-GENERAL

L38 ANSWER 13 OF 13 RAPRA COPYRIGHT 2008 RAPRA on STN
ACCESSION NUMBER: R:80425 RAPRA Full-text
FILE SEGMENT: Rapra Abstracts
TITLE: PNEUMATIC TYRE AND WHEEL RIM ASSEMBLY.
INVENTOR: WILDE R
PATENT ASSIGNEE: DUNLOP LTD.
SOURCE: PR.28.3.78(12068/78)(GB)PUBL.10.10.79
PATENT INFORMATION: GB 2017598
DOCUMENT TYPE: Patent
LANGUAGE: English
AB COMPRISES SUPPOPT MEANS EXTENDING CIRCUMFERENTIALLY AROUND THE RIM BETWEEN THE BEAD SEATS TO SUPPOPT THE TYRE WHEN IN A DEFLATED CONDITION, THE SUPPORT MEANS BEING ROTATABLE RELATIVE TO THE RIM WHEN THE TYRE IS DEFLATED, AND MEANS FOR RELEASING LUBRICANT TO AID ROTATION. THE LUBRICATION MEANS COMPRISES A SEALED CONTAINER LOCATED IN A RECESS IN THE SUPPORT MEANS AND A

NIPPLE WHICH RUPTURES TO RELEASE LUBRICANT BETWEEN THE RADIALLY INNER SURFACE OF THE SUPPORT MEANS AND A CONFRONTING RUNNING SURFACE ON THE RIM.

AN R:80425 RAPRA FS Rapra Abstracts Full-text

CC 6T1062; 7; 6T5

CT RUBBER; TYRE; SAFETY; WHEEL; RUN-FLAT; COMPANY; WHEEL RIM; LUBRICATION; TIRE

CO DUNLOP LTD.

***** SEARCH HISTORY *****

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     (FILE 'HOME' ENTERED AT 10:15:13 ON 12 SEP 2008)

     FILE 'HCAPLUS' ENTERED AT 10:15:25 ON 12 SEP 2008
L1             1 SEA ABB=ON  PLU=ON  US20060138703/PN
                 D IBIB AB IT SC
L2           348 SEA ABB=ON  PLU=ON  RUN FLAT#
L3          3110 SEA ABB=ON  PLU=ON  SUPPORT (W) (BODY OR BODIES)
L4             7 SEA ABB=ON  PLU=ON  L2 AND L3
L5             0 SEA ABB=ON  PLU=ON  CIRCUMFEREN? WALL# (L) TUBUL? BLANK
L6            10 SEA ABB=ON  PLU=ON  (INNER OR OUTER) (L) MOLD? ROLLER#
L7        184793 SEA ABB=ON  PLU=ON  CIRCUMFEREN? OR TUBUL?
L8             3 SEA ABB=ON  PLU=ON  L6 AND L7
                 D SCAN TI HIT
                 D TI KWIC 1-3
                 D L8 1 SC
                 D L8 1 IBIB AB
L9             1 SEA ABB=ON  PLU=ON  L6 AND L3
L10            1 SEA ABB=ON  PLU=ON  L6 AND L2
L11           41 SEA ABB=ON  PLU=ON  L2 AND L7
L12            1 SEA ABB=ON  PLU=ON  L6 AND L11
L13            0 SEA ABB=ON  PLU=ON  L11 AND CIRCUMFEREN? WALL#
L14            1 SEA ABB=ON  PLU=ON  L11 AND TUBUL? BLANK
L15            1 SEA ABB=ON  PLU=ON  L11 AND  MOLD? ROLLER#
L16            1 SEA ABB=ON  PLU=ON  L11 AND L3
L17            3 SEA ABB=ON  PLU=ON  L8 OR L9 OR L12 OR (L14 OR L15 OR L16)
                 D TI KWIC 1-3
L18            9 SEA ABB=ON  PLU=ON  L17 OR L4
                 SAVE TEMP L18 SUL537HCAP/A

     FILE 'COMPENDEX, INSPEC, RAPRA, CONFSCI, MECHENG' ENTERED AT 10:29:57 ON
     12 SEP 2008
L19            0 SEA ABB=ON  PLU=ON  L2 AND L3
L20            0 SEA ABB=ON  PLU=ON  L3 AND L6
L21          637 SEA ABB=ON  PLU=ON  RUN FLAT#
L22           58 SEA ABB=ON  PLU=ON  L21 AND SUPPORT
L23         1728 SEA ABB=ON  PLU=ON  SUPPORT (5A) (BODY OR BODIES)
L24            0 SEA ABB=ON  PLU=ON  L21 AND L23
                 D TI KWIC L22 1-3
L25            0 SEA ABB=ON  PLU=ON  L22 AND L6
L26            9 SEA ABB=ON  PLU=ON  L21 AND L7
                 D TI KWIC 1-3
L27           62 SEA ABB=ON  PLU=ON  RUNFLAT
L28          651 SEA ABB=ON  PLU=ON  RUNFLAT# OR RUN(W) FLAT# OR RUN FLAT#
L29          640 SEA ABB=ON  PLU=ON  L28 AND (TIRE# OR WHEEL# OR TUBUL? OR MOLD
                 ROLLER#)
L30            9 SEA ABB=ON  PLU=ON  L29 AND L7
L31            9 SEA ABB=ON  PLU=ON  L30 AND CIRCUMFEREN?
L32            0 SEA ABB=ON  PLU=ON  L31 AND L23
L33            4 SEA ABB=ON  PLU=ON  L31 AND SUPPORT?
                 D TI KWIC 1-4
L34          255 SEA ABB=ON  PLU=ON  (INNER OR OUTER) (2A) MOLD?
L35           10 SEA ABB=ON  PLU=ON  MOLD? ROLLER#
L36            0 SEA ABB=ON  PLU=ON  L29 AND L34
L37            0 SEA ABB=ON  PLU=ON  L29 AND L35
                 SAVE TEMP L33 SUL537MULTI/A
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     FILE 'STNGUIDE' ENTERED AT 10:41:20 ON 12 SEP 2008
                    D QUE L18
                    D QUE L33

     FILE 'HCAPLUS, RAPRA' ENTERED AT 10:43:04 ON 12 SEP 2008
L38           13 DUP REM L18 L33 (0 DUPLICATES REMOVED)
                       ANSWERS '1-9' FROM FILE HCAPLUS
                       ANSWERS '10-13' FROM FILE RAPRA
                    D L38 1-9 IBIB ABS HITIND
                    D L38 10-13 IBIB AB IND
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